RSK1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RSK1, Polyclonal Antibody
Full Product Name	RSK1, Phosphorylated (Ser363) (Ribosomal S6 Kinase 1, RSK-1, 90kD Ribosomal Protein S6 Kinase 1, p90-RSK 1, p90RSK1, p90S6K, MAP Kinase-activated Protein Kinase 1a, MAPK-activated Protein Kinase 1a, MAPKAP Kinase 1a, MAPKAPK1A, MAPKAPK-1a, Ribosomal Prote
Product Gene Name	anti-RSK1 antibody
Product Synonym Names	Ribosomal Protein S6 Kinase 90kDa Polypeptide 1; EC=2.7.11.1; HU-1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes human RPS6KA1 when phosphorylated at Ser363.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	72,698 Da
OMIM	601684
3D Structure	ModBase 3D Structure for Q15418
Immunogen	Synthetic phosphopeptide corresponding to amino acid residues surrounding Ser363 of human RPS6KA1 (KLH).
Conjugate	MaxLight405
Antigen Modification	Phosphorylated
Note	Preservative Free
Product Categories/Family for anti-RSK1 antibody	Antibodies; Protein Kinases; Ribosomal
Applications Tested/Suitable for anti-RSK1 antibody	FLISA, Dot Blot (DB)
Application Notes for anti-RSK1 antibody	FLISA: 1:1,000 Dot Blot: 1:500 Applications are based on unconjugated antibody.
Related Product Information for anti-RSK1 antibody	MBS6498247 is an antibody targeting RSK1. Also known as RSK1, Phosphorylated (Ser363) (Ribosomal S6 Kinase 1, RSK-1, 90kD Ribosomal Protein S6 Kinase 1, p90-RSK 1, p90RSK1, p90S6K, MAP Kinase-activated Protein Kinase 1a, MAPK-activated Protein Kinase 1a, MAPKAP Kinase 1a, MAPKAPK1A, MAPKAPK-1a, Ribosomal Prote. Reactive in Human. Host: Rabbit.

Product References and Citations for anti-RSK1 antibody	1. Roux, P.P., et al., Proc. Natl. Acad. Sci. USA 101(37):13489-13494 (2004). 2. Bohuslav, J., et al., J. Biol. Chem. 279(25):26115-26125 (2004). 3. Hu, Y., et al., J. Biol. Chem. 279(28):29325-29335 (2004). 4. Fernando, R.I., et al., Mol. Biol. Cell 15(7):3266-3284 (2004). 5. Cavet, M.E., et al., J. Biol. Chem. 278(20):18376-18383 (2003).
Other Notes	Small volumes of anti-RSK1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RSK1. It may not necessarily be applicable to this product.

NCBI GI #	55743134
NCBI GeneID	6195
NCBI Accession #	NP_001006666
UniProt Primary Accession #	Q15418
UniProt Secondary Accession #	Q5SVM5; Q5SVM8; Q5SVM9; Q96C05; Q9BQK2; A6NGG4; A8K9K7; B2RDY8; B7Z5J0
UniProt Related Accession #	Q15418
GenBank Nucleotide #	NM_001006665
NCBI Official Full Name	ribosomal protein S6 kinase alpha-1 isoform b
NCBI Official Synonym Full Names	ribosomal protein S6 kinase, 90kDa, polypeptide 1
NCBI Official Symbol	RPS6KA1
NCBI Official Synonym Symbols	RSK; HU-1; RSK1; p90Rsk; MAPKAPK1A
UniProt Protein Name	Ribosomal protein S6 kinase alpha-1
UniProt Synonym Protein Names	90 kDa ribosomal protein S6 kinase 1; p90-RSK 1; p90RSK1; p90S6K; MAP kinase-activated protein kinase 1a; MAPK-activated protein kinase 1a; MAPKAP kinase 1a; MAPKAPK-1a; Ribosomal S6 kinase 1
UniProt Gene Name	RPS6KA1
UniProt Synonym Gene Names	MAPKAPK1A; RSK1; S6K-alpha-1; p90-RSK 1; p90RSK1; p90S6K; MAPK-activated protein kinase 1a; MAPKAP kinase 1a; MAPKAPK-1a; RSK-1
UniProt Entry Name	KS6A1_HUMAN
NCBI Protein Information	ribosomal protein S6 kinase alpha-1; 90 kDa ribosomal protein S6 kinase 1; MAP kinase-activated protein kinase 1a; MAPK-activated protein kinase 1a; MAPKAP kinase 1a; MAPKAPK-1a; RSK-1; S6K-alpha 1; S6K-alpha-1; dJ590P13.1 (ribosomal protein S6 kinase, 90

UniProt Comments for RSK1	p90RSK: an AGC kinase of the RSK family. Phosphorylated and activated by Erk1 and -2 in response to many growth factors, polypeptide hormones and neurotransmitters. Several phosphorylation sites are important for its activation. Possesses two kinase domains connected by a regulator linker region. Phosphorylates a wide range of substrates including ribosomal protein S6. Prominently expressed in brain structures essential for cognitive function and learning. Protein type: EC 2.7.11.1; Protein kinase, AGC; Kinase, protein; Translation; Protein kinase, Ser/Thr (non-receptor); AGC group; RSK family; RSK subfamily Chromosomal Location of Human Ortholog: 1p Cellular Component: nucleoplasm; cytoplasm; spindle; cytosol; nucleus Molecular Function: protein serine/threonine kinase activity; protein binding; caspase inhibitor activity; magnesium ion binding; protein serine/threonine/tyrosine kinase activity; ATP binding Biological Process: regulation of transcription in response to stress; axon guidance; nerve growth factor receptor signaling pathway; MyD88-independent toll-like receptor signaling pathway; stress-activated MAPK cascade; regulation of translation in response to stress; negative regulation of caspase activity; toll-like receptor 3 signaling pathway; signal transduction; cell cycle; positive regulation of cell growth; protein amino acid phosphorylation; toll-like receptor 10 signaling pathway; toll-like receptor 2 signaling pathway; toll-like receptor 5 signaling pathway; MyD88-dependent toll-like receptor signaling pathway; synaptic transmission; toll-like receptor signaling pathway; innate immune response; positive regulation of transcription from RNA polymerase II promoter; toll-like receptor 9 signaling pathway; positive regulation of cell differentiation; toll-like receptor 4 signaling pathway; negative regulation of apoptosis
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